SEP 1 0 2003



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/895,263A

DATE: 09/08/2003

TIME: 08:55:58

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\09082003\I895263A.raw

```
3 <110> APPLICANT: He, et al.,
      5 <120> TITLE OF INVENTION: Ántibodies to Interleukin-1 Beta Converting Enzyme Like
Apoptosis
      6
              Protease 3
      7
              and 4
      9 <130> FILE REFERENCE: PF140C2
     11 <140> CURRENT APPLICATION NUMBER: 09/895,263A
     12 <141> CURRENT FILING DATE: 2001-07-02
     14 <150> PRIOR APPLICATION NUMBER: 08/334,251
     15 <151> PRIOR FILING DATE: 1994-11-01
     17 <160> NUMBER OF SEQ ID NOS: 14
                                                              ENTERED
     19 <170> SOFTWARE: PatentIn version 3.2
     21 <210> SEQ ID NO: 1
     22 <211> LENGTH: 1369
     23 <212> TYPE: DNA
     24 <213> ORGANISM: Homo sapiens
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                                                                              120
     31 geggggacae gggtegettt gggetettee acceetgegg agegeactae ecegageeag
                                                                              180
                                                                              240
     33 gggcggtgca agccccgccc ggccctaccc agggcggctc ctccctccgc agcgccgaga
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     35 cttttagttt cgctttcgct aaaggggccc cagacccttg ctgcggagcg acggagagag
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     37 actgtgccag tcccagccgc cctaccgccg tgggaacgat ggcagatgat cagggctgta
     39 ttgaagagca gggggttgag gattcagcaa atgaagattc agtggatgct aagccagacc
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     47 acggaacaga caaagatgcc gaggcgctct tcaagtgctt ccgaagcctg ggttttgacg
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     49 tgattgtcta taatgactgc tcttgtgcca agatgcaaga tctgcttaaa aaagcttctg
                                                                              720
     51 aagaggacca tacaaatgcc gcctgcttcg cctgcatcct cttaagccat ggagaagaaa
                                                                              780
     53 atgtaattta tgggaaagat ggtgtcacac caataaagga tttgacagcc cactttaggg
                                                                              840
                                                                              900
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     57 ggaccgaget tgatgatgee atccaggeeg acteggggee catcaatgae acagatgeta
                                                                              960
                                                                             1020
     59 atectegata caagateeca gtggaagetg acttectett egectattee aeggtteeag
    61 gctattactc gtggaggagc ccaggaagag gctcctggtt tgtgcaagcc ctctgctcca
                                                                            . 1080
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                                                                             1200
     67 teceetgtgt ggtetecatg eteaceaagg aactetaett cagteaatag ceatateagg
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77 <213> ORGANISM: Homo sapiens

76 <212> TYPE: PRT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/895,263A

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82	1				5					10					15			
85 <i>1</i> 86	Ala	Asn	Glu	Asp 20	Ser	Val	Asp	Ala	Lys 25	Pro	Asp	Arg	Ser	Ser 30	Phe	Val		
	Pro	Ser	Leu 35	Phe	Ser	Lys	Lys	Lys	Lys	Äsn	Val	Thr	Met 45	Arg	Ser	Ile		
93 :	Lys			Arg	Asp	Arg		Pro	Thr	Tyr	Gln			Met	Asn	Phe		
94	C1	50	τ	C1	T	C	55	T1.	T10	7 ~ ~	70-	60	7\	Dho	7. a.s.	T		
98		ьуѕ	ьец	СТУ	гуз	70	тте	тте	тте	ASII	75	ьуѕ	ASII	Phe	ASP	80 [.]		
		ጥኮ *		, Mat	Cla	. •	Δνο	. Aer	പ്പ	, The		. T.17	- 7\cı	` ^ 1\1 =	cl.	a Ala		
102		THE	. Gr	, me c	. Gry 85	val	. AIC	, ASI	1 617	90	. Asl	л	o Asi) Alc	95	ина		
		Dhe	T.376	Circ		Δνο	Sar	. T.aı			Δer	. Va	т1.	a Val		Asn		•
1,06			-	100)				105	5				110)			
109 110	Asp	Cys	Ser 115		: Ala	Lys	Met	: Glr 120) Lei	ı Let	ı Lys	5 Ly: 12!		. Ser	Glu	-	
113 114	Glu	Asp 130		Thr	Asn	Ala	Ala 135	_	Ph∈	e Ala	Cys	3 Ile 140		ı Lev	ı Ser	His		
	Gly			Asr	Val	Ile		Gly		Asp	GI	va.	l Th	r Pro) Ile	e Lys		
	145					150		•		•	-155					160		
121	Asp	Leu	ı Thr	: Ala	His 165		Arg	l GJ?	/ Asp	Arc 170		s Lys	s Thi	r Lei	1 Let 175	ı Glu		
125 126	Lys	Pro	Lys	Leu 180		Phe	∶Il∈	e Glr	n Ala 185		Arç	g Gly	y Thi	r Glu 190		a Asp		
	Asp	Ala		e Glr		Asp	Ser	· Gly			. Asr	n Asp	Th			Asn		
130			195					200					20!					
.133 134	Pro	Arg 210	_	Lys	Ile	Pro	Val 215		ı Ala	Asp	Ph∈	Let 220		e Ala	Туг	Ser		
			Pro	Gly	Tyr			Trp	Arg	ser,			y Ar	g Gl	/ Ser	Trp		
	225				_	230			_		235			_	_	240		,
141 142	Phe	Val	. Gir	n Ala	Leu 245	_	Ser	116	e Leu	250 250		His	g GL	у Гуз	255 255	Leu		
145 146	Glu	Ile	Met	Glr 260		Leu	Thr	Arc	Val 265		Asp	Arq	y Vai	l Ala 270		, His		
	Phe	Glu	Ser			Asp	Asp	Pro			His	Gli	ı Lys			lle		
150			275			•	-	280			*		285				•	•
153	Pro	Cys	Val	Val	Ser	Met	Leu	·Thr	Lys	Glu	Let	туі	: Phe	e Ser	Glr	1		
. 154		290	١.		•		295	٠.				300)					
157	<21	0> S	EQ I	D NC	: 3											•		
			,	`H: 1						*								•
				DNA														
				IISM:		o sa	pien	S										•
			-	NCE:														
	3 gcacgagegg atgggtgeta ttgtgaggeg gttgtagaag agttteg 5 eteataeetg tggetgtgta teegtggeea eagetggttg gegtege																60	
																		120
	gccgtgagga gttagcgagc cctgctcaca ctcggcgctc to ctgcacctgc ctcttcccgc attctcatta ataaaggtat c																180	
																		240
1/1	tca	gtgg	att	caaa	atcc	at t	aaaa	attt	.g ga	acca	aaga	ı tca	itaca	atgg	aago	gaatc	a ·	300

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																tctggt	42	
																gtcagg	48	
			_			-					_		_			aaagaa	54	
	-	-	_	-		_	_	_	_	_						ggaata	60	
			_						_						-	ggggat	66 72	
	_	_		_											-	ggtaca cataaa	78	
																tcttgg	84	
																cagtat	90	
	-									_				_	-	acagaa	96	
	_	_	-	-		_					_					attgtt	102	
						-	_			_	_		_		_	gttttt	108	3:0
199	ttta	agttt	igt a	atgco	caagt	g a	gaaga	atggi	t ata	attt	gggt	acto	gtati	ttc (cctct	tcattg	114	0 ا
			act o			3											115	9
			EQ II															
			ENGT		77												•	
			YPE:								•							
						sap	piens	3							•	•		
			A OP			7.00	Cox	17 a 1	7.00	÷	T 110	C0.x	Tlo	Tivo	Asn	Lou		
212		GIU	ASII.	TIIL	5 5	ASII	ser	val	Asp	10	гÃ2	ser	TTE	ьÑ2	15	пеп		
		Pro	Lvs	Tle	Tle	His	Glv	Ser	Glu	- · .	Met	Asp	Ser	Glv	Ile	Ser		
216	0_0	,0		20			011	001	25					30		-	. ,	
	Leu	Asp	Asn	Ser	Tyr	Lys	Met	Asp	Tyr	Pro	Glu	Met	Gly	Leu	Cys	Ile		
220			35		-	-		40	_				45					
223	Ile	Ile	Asn	Asn	Lys	Asn	Phe	His	Lys	Ser	Thr	Gly	Met	Thr	Ser	Arg		
224		50					5.5					60	٠.					
227		Gly	Thr	Asp	Val		Ala	Ala	Asn	Leu	_	Glu	Thr	Phe	Àrg			
228		-	_	6 3		70	_	-	70	20	75	m1.		01	01. -	80		
	Leu	г'ns	Tyr	GIU		Arg	Asn	гуѕ	Asn	Asp 90	Leu	Tnr	Arg	GIU	95	Ile		•
232	Val	Clu	Lou	Mot	85 Ara	A en	Wal	Sor	Luc		Aen	Hie	Sor	Live	Arg	Sar		
236	vai	GIU	пеп	100	Arg	дор	vaı	Ser	105	GIU.	лэр	111.3	Jer	110	Arg	·		
	Ser	Phe	Val		Vaİ	Leu	Leu	Ser		Glv	Glu	Glu	Glv		Ile	Phe		
240			115					120		_			125			•		
243	Gly	Thr	Asn	Gly	Pro	Val	Asp	Leu	Lys	Lys	Ile	Thr	Asn	Phe	Phe	Arg		
244		130					135					140	٠.					•
			Arg	Cys	Arg	Ser	Leu	Thr	Gly				Leu	Phe	Ile			
											155				•			
	Gln	Ala	Cys	Arg		Thr	Glu	Leu	Asp			Ile	Glu	Thr	Asp	Ser		
252	01		_	_	165		7 . 7			170		. .		~ 1	175	7		
	GTÀ	vaı	Asp		Asp	меt	АТа	Cys		г'nз	тте	Pro	vaı		Ala	Asp		
256 259	Dho	Len	т'т, т~	180	ጥ‹‹›	Ser	Thr	Δ1 ¬	185 Pro	G117	ጥርታ	Тух	Ser	190	Arg	Δen		
260	FIIE	ъeи	191 195	пта	тАт	Ser	TIIL	200	LIO	ату	тЪт	1 Y L	205	тър	ALY	non		•
	Ser	Lvs		Glv	Ser	Tro	Phe		Gln	Ser	Len	Cvs		Met	Leu	Lvs		
264	501	210	1135	O-Y	501		215	110	- Z.11	501	u	220	-114		204	_, _		
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					-1-									9				

DATE: 09/08/2003

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                                                               TIME: 08:55:58
                     Input Set : A:\PTO.KD.txt
                     Output Set: N:\CRF4\09082003\1895263A.raw
     268 225
                                              235
                                                                       240
     271 Arg Lys Val Ala Thr Glu Phe Glu Ser Phe Ser Phe Asp Ala Thr Phe
                                              250-
                         245
     275 His Ala Lys Lys Gln Ile Pro Cys Ile Val Ser Met Leu Thr Lys Glu
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     284 <211> LENGTH: 31
     285 <212> TYPE: DNA
     286 <213> ORGANISM: Artificial sequence.
     288 <220> FEATURE:
     289 <223> OTHER INFORMATION: Contains a Bam HI restriction enzyme site (underlined)
followed
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     290
     291
               presumed terminal amino acid of the processed protein codon
     293 <400> SEQUENCE: 5
     294 gatcggatcc atgcgtgcgg ggacacgggt c
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     300 <213> ORGANISM: Artificial sequence
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     303 <223> OTHER INFORMATION: Contains complementary sequences to an Xba I site followed
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     306 <400> SEOUENCE: 6
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     311 <211> LENGTH: 31
     312 <212> TYPE: DNA
     313 <213> ORGANISM: Artificial sequence
     315 <220> FEATURE:
     316 <223> OTHER INFORMATION: Contains a Bam HI restriction enzyme site followed by 18
     317
               nucleotides of ICE-LAP-4 coding sequence starting from the
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     318
     320 <400> SEQUENCE: 7
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                                                                                 31
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     326 <212> TYPE: DNA
     327 <213> ORGANISM: Artificial sequence
     329 <220> FEATURE:
     330 <223> OTHER INFORMATION: Contains complementary sequences to an Xba I site followed
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     331
     333 <400> SEQUENCE: 8
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     337 <210> SEQ ID NO: 9
     338 <211> LENGTH: 22
     339 <212> TYPE: DNA
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RAW SEQUENCE LISTING

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/895,263A

Input Set: A:\PTO.KD.txt
Output Set: N:\CRF4\09082003\1895263A.raw

342 <220> FEATURE: 343 <223> OTHER INFORMATION: Contains the ICE-LAP-3 translational initiation site ATG followed by 5 nucleotides of ICE-LAP-3 coding sequence starting from the 344 initiation codon 347 <400> SEQUENCE: 9 22 348 gactatgcgt gcggggacac gg 351 <210> SEO ID NO: 10 352 <211> LENGTH: 53 353 <212> TYPE: DNA 354 <213> ORGANISM: Artificial sequence 356 <220> FEATURE: 357 <223> OTHER INFORMATION: Contains translation stop codon, HA tag and the last 21 nucleotides of the ICE-LAP-3 coding sequence, not including the 359 stop codon 361 <400> SEQUENCE: 10 362 aatcaagcgt agtctgggac gtcgtatggg tattcaccct ggtggaggat ttg 53 365 <210> SEQ ID NO: 11 366 <211> LENGTH: 21 367 <212> TYPE: DNA 368 <213> ORGANISM: Artificial sequence 370 <220> FEATURE: 371 <223> OTHER INFORMATION: Contains the ICE-LAP-4 translational initiation site, ATG, followed by 15 nucleotides of ICE-LAP-4 coding sequence starting 372 3.73 from the initiation codon 375 <400> SEQUENCE: 11 376 accatggaga acactgaaaa c 21 379 <210> SEQ ID NO: 12 380 <211> LENGTH: 53 381 <212> TYPE: DNA 382 <213> ORGANISM: Artificial sequence 384 <220> FEATURE: 385 <223> OTHER INFORMATION: Contains translation stop codon, HA tag and the last 21 (nucleotides of the ICE-LAP-4 coding sequence, not including the stop codon 389 <400> SEQUENCE: 12 390 aatcaagcgt agtctgggac gtcgtatggg tagtgataaa aatagagttc ttt 53 393 <210> SEQ ID NO: 13 394 <211> LENGTH: 503 395 <212> TYPE: PRT 396 <213> ORGANISM: Caenorhabditis elegans 398 <400> SEQUENCE: 13 400 Met Met Arg Gln Asp Arg Arg Ser Leu Leu Glu Arg Asn Ile Met Met 401 1 10 404 Phe Ser Ser His Leu Lys Val Asp Glu Ile Leu Glu Val Leu Ile Ala 405 20 25 408 Lys Gln Val Leu Asn Ser Asp Asn Gly Asp Met Ile Asn Ser Cys Gly 412 Thr Val Arg Glu Lys Arg Arg Glu Ile Val Lys Ala Val Gln Arg Arg 413 50

VERIFICATION SUMMARY

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